Student's Name/Initials	I	Date	Teacher's Initials	Date
AIR COND	TIONING REFRIGERATIO	N TECHNOLOGY (ACRT) STU	JDENT PROFILE	
DIRECTIONS: Evaluate the student using the app are not intended to represent the to A, B, C, and D. The description as below.	aditional school grading sys	stem of		etency. The ratings 3, 2, 1, and N n for each of the competencies listed
PERFORMANCE RATING			COGNITIVE R	ATING
 3 - <u>Skilled</u>can perform task independently with no s 2 - <u>Moderately skilled</u>can perform task completely v 1 - <u>Limitedly skilled</u>requires instruction and close so N - <u>No exposure</u>has no experience or knowledge or 	vith limited supervision spervision	2 - <u>Moderate</u> 1 - <u>Limited k</u>	geablecan apply the concep bly knowledgeableunderstan nowledgerequires additiona surehas not received instruc	ds the concept I instruction
Unit A. Basic Safety	frac	, subtract, multiply, and divide tions.	3.	Explain how to maintain power tools properly.
3 2 1 N 1. Identify the responsibilities and personal characteristics of a	dec calc	, subtract, multiply, and divide imals, with and without a culator.		duction to Blueprints
professional craftsperson. 2. Explain the role that safety plays in the construction crafts. 3. Describe what job-site safety	pero 6. Cor	ert decimals to percents and cents to decimals. Evert fractions to decimals and imals to fractions.	3 2 1 N 1.	Recognize and identify basic blueprint terms, components, and symbols.
means. Language Mar job-site safety means. Language Mar job-site safety means. Language Mar job-site safety precautions around common job-	7. Exp and	lain what the metric system is how it is important in the struction trade.		Relate information on blueprints to actual locations on the print. Recognize different classifications
site hazards. 5. Demonstrate the use and care of appropriate personal protective	8. Red leng	perature.		of drawings.
equipment6. Follow safe procedures for lifting heavy objects7. Describe safe behavior on and	9. Red use	ognize some of the basic shape d in the construction industry an ly basic geometry to measure	es es	Identify and describe the use of slings and common rigging
around ladders and scaffolds. 8. Explain the importance of the HazCom (Hazard Communication Standard) requirement and MSDSs	3 2 1 N	on to Hand Tools cognize and identify some of the		hardware. Describe the basic inspection techniques and rejection criteria used for slings and hardware.
(Material Safety Data Sheets). 9. Describe fire prevention and fire fighting techniques 10. Define safe work procedures around	bas con 2. Use	ic hand tools used in the struction trade. these tools safely.	3.	Describe the basic hitch configurations and their proper connections. Describe basic load-handling safety
electrical hazards. Unit B. Basic Math	taki	cribe the basic procedures for ng care of these tools.	5.	practices. Demonstrate proper use of American National Standards Institute (ANSI) hand signals.
3 2 1 N 1. Add, subtract, multiply, and divide whole numbers, with and without a calculator.		ntify commonly used power tools ne construction trade.		duction to ACRT
2. Use standard ruler and a metric ruler to measure.	2. Use	power tools safely.	1.	Explain the basic principles of heating, ventilation, and air

a S. Explain the purpose and objectives of an apperinted training grongers and properties training grongers training can start in high school growth the Clean Air Act means to the ACRT trade. Select the fluiding by using lare and means to the ACRT trade. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding by using lare and supports needed for refrigerant pipe in pipe. Select the fluiding sole selection in the current, voltage, and resistance in a circuit. Select the fluiding sole selection in the current, voltage, and resistance in a circuit. Select the fluiding sole selection in the current, voltage, and resistance in a circuit. Select the fluiding sole selection in the current, voltage, and resistance in a circuit. Select the fluiding sole selection in the select to select the fluiding sole selection in the select to select		2.	conditioning. Identify career opportunities available to people in the ACRT trade.	Unit J. 3 2 1		er and Plastic Piping Practices State the precautions that must be			6 7	consider when installing pipe runs.
4. Describe how cartified apprentice training can start in high school of training can start in high school of the training can describe the high school of the training can start in high school can be able to the high school of the training can start in high school of the training can shoul high s		3.	Explain the purpose and objectives		'.	taken when installing refrigerant	Unit I	М.	Basi	
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means to the ACRT trade. Unit H. Trade Mathematics Instructor's Guide Unit H. Trade Mathematics Instructor's Guide Determine the kinds of hangers and supports needed for refrigerant piping. 1 1 Identify similar units of measurement in both the inch-pround (English) and metric systems and know which units at supports needed for refrigerant piping. 2 2 Convert measured values in the inch-pround (English) and metric systems and know which units at supports needed for refrigerant piping. 2 3 2 To N. Soldering and Brazing 2 4 Convert measured values in the inch-pround system to equivalent metric values and vice versa. 3 2 To N. Assemble and operate the tools used for soldering. 4 Determine the powers and vice versa. 4 Determine the powers and vice versa. 5 Describe the differences between series and operate the tools used for soldering. 6 Recognize various geometric flipures. 5 Solve basic algebraic equations. 6 Recognize various geometric flipures. 6 Recognize various geometric flipures. 7 Unit N. Tools of the Trade Unit I. Tools of the Trade 1 1 Identify and state the use of the following kings and procedures for make calculations involving right inchingles. 1 2 Tools of the Trade 1 1 Identify and state the use of the following right inching rights. 1 2 Tools of the Trade 2 Describe the general procedures for preparation and power tools. 3 2 Tool inching and procedures for preparation and power tools. 4 Identify the inchinger process and uses of the refreshments and fluxes used for brazing. 5 Pipe wrenches 7 Inching and Brazing. 5 Inching and Brazing. 5 Inching and Brazing. 6 Prepare tubing and fittings for brazing. 6 Prepare tubing and fittings. 6 Prepare tubing and fittings. 7 Unit N. Introduction to Cooling view brazing. 8 Brace copper tubing and fittings. 9 Inching and power tools. 9 Inching and procedures for prepared the procedures for proce			training can start in high school		_		3 2	2 1	N	
Unit H. Trade Mathematics Instructor's Guide supports needed for refrigerant piping. 3 2 1 N N 1. Identify similar units of measurement in both the inch-pound (English) and metric systems and know which units art larger. 2 2 Convert measured values in the inch-pound system to equivalent metric values and two wards. 3 2 1 N S 4 5 Convert measured values in the inch-pound system to equivalent metric values and vice versa. 4 6 Convert measured values in the inch-pound system to equivalent metric values and vice versa. 5 2 1 N S 5 2 1 N S 5 2 1 N S 5 2 1 N S 5 2 1 N S 5 2 1 N S 5 2 1 N S 5 3 2 1 N S 5 3 2 1 N S 5 3 2 1 N S 5 3 2 1 N S 5 3 2 1 N S 5 4 5 5 Solve basic algebraic equations. 5 5 5 Solve basic algebraic equations. 5 5 5 Solve basic algebraic equations. 5 6 Recognize and observable to solder fully single and fittings for values of figures. 5 7 Solve basic algebraic equations. 5 8 Convert decimal feet to feet and inches and vice versa. 5 9 Solve basic algebraic equations. 6 8 Convert decimal feet to feet and inches and vice versa. 6 9 Solve basic algebraic equations. 7 1 Solve fire proper formula to calculate the own much power is consumed by a circuit. 8 8 Convert decimal feet to feet and inches and vice versa. 9 8 Convert decimal feet to feet and inches and vice versa. 10 1 Identify the purposes and uses of filler metals and fluxes used for brazing. 10 1 Identify the purposes and uses of filler metals and fluxes used for brazing. 10 2 1 N Solder organization and fittings for brazing. 10 2 1 N Solder organization and fittings for brazing. 10 3 2 1 N Solder organization and fittings for brazing. 10 4 Identify the purposes and uses of filler metals and fluxes used for brazing. 10 4 Identify the purposes and uses of filler metals and fluxes used for brazing. 10 5 Identify the purpose sale uses of filler metals and fluxes used for brazing. 10 6 Identify the purposes and uses of filler metals and fluxes used for brazing. 10 6 Identify the purposes and uses of filler meta		5.			4.				1	
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inches and vice versa. Unit I. Tools of the Trade Separating. 1. Identify the purposes and uses of filler metals and fluxes used for brazing. Separating. 1. Identify and state the use of the following tools: Pipe wrenches Torque wrenches Torque wrenches Tanner's and soft-faced hammers Hand cutting snips Hand and power hacksaws Drill press Measuring tools. Measuring tools. Measuring tools. Drill press Measure the general procedures for maintenance of most hand and power tools. Separating metals and fluxes used for brazing. Separating metals metals and push when a transfer occurs in a cooling system, demonstrating an understanding of the terms and concepts used in the refrigeration cycle. Separating metals metals prime the special procedures for metal pipes. Separating metals metals must be ferrous metal pipes. Separating metals metals must be ferrous metal pipes. Separating metals metals must be ferrous metal pipes. Separating metals metals metals must be ferrous metal pipes. Separating metals metals m		8.			0.				9	
Tools of the Trade					7.	9				
8. Brace copper tubing and fittings. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. Pipe wrenches Torque wrenches Tanner's and soft-faced hammers Hand cutting snips Hand and power hacksaws Drill press Measuring tools Measuring tools Measuring tools 2. Describe the general procedures for maintenance of most hand and power tools. 3. Describe or demonstrate the general safety precautions that must be followed when using most hand and power tools. 8. Brace copper tubing and fittings. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when in prazing. 9. Identify the inert gazes that can safely be used to purge tubing when brazing. 9. Identify the inert gazes that can safely be used to purge tubing when in prazing. 9. Identify the inert gazes that can safely be undertally pressure relationships at key points in the refrigeration cycle. 9. Identify the inert gazes of ferrous metal procedures for proced										
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1. Identify and state the use of the following tools: Pipe wrenches					8.		_			
following tools: Pipe wrenches	3 2 1	N			9.		3 2	2 1		
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Torque wrenches Tanner's and soft-faced hammers Hand cutting snips Hand and power hacksaws Drill press Measuring tools Describe the general procedures for maintenance of most hand and power tools. Describe or demonstrate the general safety precautions that must be followed when using most hand and power tools. Torque wrenches Tanner's and soft-faced hammers Hand cutting snips Unit L. Ferrous Metal Piping Practices Unit L. Ferrous Metal Piping Practices 1. Identify the types of ferrous metal pipes. 1. Identify the types of ferrous metal pipes. 2. Measure the sizes of ferrous metal pipes. 3. Under supervision, use temperature- and pressure-measuring instruments to make readings at key points in the refrigeration cycle. 3. Identify the common malleable iron fittings. 4. Identify commonly used refrigerants and demonstrate the procedures for handling these refrigerants. 5. Join lengths of threaded pipe 5. Recognize and draw the major					10					
Tanner's and soft-faced hammers Hand cutting snips Unit L. Ferrous Metal Piping Practices Unit L. Pall Practices Unit L. Pall Practices Unit L. Pall Practices Uni					10.	Braze saddle valve on suction line				
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and power tools. pipe. handling these refrigerants. 5. Join lengths of threaded pipe 5. Recognize and draw the major					1				4	
5. Join lengths of threaded pipe 5. Recognize and draw the major										
			and potroi toolo.		5.				5	
togothor and motali mange.					0.	together and install fittings.				components of a cooling system

	6.	and explain how each type works. Recognize the major accessories available for cooling systems and	Unit P. 3 2 1		stribution Systems	Unit R.	Maintenance Skills for the Service Technician
			3 2 1		Describes the sinfless and assessment in	0 0 4	N1
	_	explain how each type works.		1.	Describe the airflow and pressures in	3 2 1	
	7.	Recognize the control devices used			a basic forced-air distribution system.		1. Identify the types of threaded and
		in cooling systems and explain how		2.	Explain the differences between		non-threaded fasteners and explain
		each type works.			propeller and centrifugal fans and		their use.
	8.	State the correct methods to be			blowers.		Install threaded and non-threaded
	٠.	used when piping a refrigeration or		3.	Identify the various types of duct		fasteners.
		cooling system.		0.	systems and explain why and where		3. Identify the types of gaskets,
	^						
	9.	Front Seat, mid position, and back		_	each type Is used.		pickings, and seals and explain their
		service valve.		4.	Demonstrate or explain the		use.
	10.	Install filter dryer			installation of metal, fiberboard, and		4. Remove and install gaskets,
	11.	Install capilary tube.			flexible duct.		pickings, and seals.
		Install liquid line indicator		5.	Demonstrate or explain the		5. Identify the types of lubricants and
		Install an accsess core types			installation of fittings and transitions		explain their use.
	10.	service valve.			used in duct systems.		6. Use lubrication equipment to
		Service valve.		6.			
Hadi O las		booties Te Heating		0.	Demonstrate or explain the use and		lubricate motor bearings.
Unit O. In	troa	uction To Heating			installation of diffusers, registers, and		7. Identify the types of belt drives and
					grilles used in duct systems.		explain their use.
3 2 1 N				7.	Demonstrate or explain the use and		8. Demonstrate and/or explain
	1.	Explain the three methods by which			installation of dampers used in duct		procedures used to install or adjust
		heat is transferred and give an			systems.		a belt drive.
		example of each.		8.	Demonstrate or explain the use and		9. Identify the types of couplings and
	2.	Describe how combustion occurs		0.	installation of insulation and vapor		explain their use.
	۷.						
		and identify the byproducts of		_	barriers used in duct systems.		10. Demonstrate and/or explain
		combustion.		9.	Identify the instruments used to		procedures used to remove, install,
	3.	Identify the various types of fuels			make measurements in air systems		and align couplings.
		used in heating.			and explain the use of each		11. Identify the types of bearings and
	4.	Identify the major components and			instrument.		explain their use.
		accessories of a forced-air furnace		10.	Make basic temperature, air		12. Explain causes of bearing failures.
		and explain the function of each			pressure, and velocity		13. Demonstrate and/or explain
		· · · · · · · · · · · · · · · · · · ·			measurements in an air		procedures used to remove and
	_	component.					
	Э.	State the factors that must be			distribution system.		install bearings.
		considered when installing a					14. Perform basic preventive
		furnace.	Unit Q.	Chimr	neys, Vents, and Flues		maintenance inspection and
	6.	Identify the major components of a					cleaning procedures.
		gas furnace and describe how each	3 2 1	N			15. List work and personal habits that
		works.		1.	Describe the principles of		contribute to good customer
	7.	With supervision, use a manometer			combustion and explain complete		relations.
	•	to measure and adjust manifold			and incomplete combustion.		16. Identify steps in the handling of a
		pressure on a gas furnace.		2.	Describe the content of flue gas and		typical service call that will
				2.			
	8.	Identify the major components of an		_	explain how it is vented.		contribute to good customer
		oil furnace and describe how each		3.	Identify the components of a furnace		relations.
		works.			vent system.		17. Legibly fill out forms used for
	9.	Describe how an electric furnace		4.	Describe how to select and install a		installation and service calls.
		works.			vent system.		
	10.	With supervision, perform basic		5.	Perform the adjustments necessary	Unit S.	Alternating Current
		furnace preventive maintenance		0.	to achieve proper combustion in a		
						2 2 4	N
		procedures such as cleaning and		^	gas furnace.	3 2 1	
		filter replacement.		6.	Describe the techniques for venting		1. Describe the operation of various
					different types of furnaces.		types of transformers.
				7.	Explain the various draft control		2. Explain how alternating current is
					devices used with natural-draft		developed and draw a sine wave.
					furnaces.		3. Identify single-phase and three-

		phase wiring arrangements. Explain how phase shift occurs in inductors and capacitors. Describe the types of capacitors and their applications. Explain the operation of single-phase and three-phase induction motors. Identify the various types of single-phase motors and their applications. Use a wattmeter, megger, capacitor analyzer, and chart recorder. Test inductors and capacitors using an ohmmeter. State and demonstrate the safety	Unit V. Into Tro	method. 6. Describe and explain the basic operation of other electric heating systems. roduction To Control Circuit publeshooting 1. Explain the function of a thermostat in an ACRT system. 2. Describe different types of thermostats and explain how they are used. 3. Demonstrate the correct installation		install and service the humidifiers used in ACRT systems. 5. Recognize the kinds of air filters used with ACRT systems and explain why each is used. 6. Demonstrate or describe how to install and service the filters used in ACRT systems. 7. Use a manometer or differential pressure gauge 8. Identify accessories commonly used with air conditioning systems to improve indoor air quality and reduce energy costs, and explain the function of each.
		precautions that must be followed when working with electrical		and adjustment of a thermostat using proper siting and wiring	Unit X. Me	tering Devices
		equipment.		techniques.		9 20.1000
Unit T.	Basic	Electronics		 Explain the basic principles applicable to all control systems. Identify the various types of 	3 2 1 N — — — —	Explain the function of metering devices.
3 2 1	N .			electromechanical, electronic, and		2. Describe the operation of selected
	1.	Explain the basic theory of electronics and semiconductors.		pneumatic ACRT controls, and explain their function and operation.		metering devices and expansion valves.
	2.	Explain how various semiconductor		6. Describe a systematic approach for		3. Identify types of thermal expansion
		devices such as diodes, LEDs, and photo diodes work, and how they		electrical troubleshooting of ACRT equipment and components.		values (TXVs). 4. Describe problems associated with
		are used in power and control		Recognize and use equipment		replacements of TXVs.
	3.	circuits. Identify different types of resistors		manufacturer's troubleshooting aids to troubleshoot ACRT equipment.		5. Describe the procedure for installing and adjusting selected TXVs.
	0.	and explain how their resistance		8. Exhibit competence in isolating		and dajusting scienced 17.00s.
	1	values can be determined. Describe the operation and function		electrical problems to faulty power distribution, load, or control circuits.	Unit Y. Co	mpressors
		of thermistors and cad cells.		9. Identify the service instruments	3 2 1 N	
	5. 6.	Test semiconductor components. Identify the connectors on a		needed to troubleshoot ACRT electrical equipment.		 Identify the different kinds of compressors.
	0.	personal computer.		10. Make electrical troubleshooting		Demonstrate or describe the
11.26.11				checks and measurements on		mechanical operation for each type
Unit U.	Electr	ic Heating		circuits and components common to all ACRT equipment.		of compressor. 3. Demonstrate or explain compressor
3 2 1	N .					lubrication methods.
	1.	Describe and explain the basic operation of a fan coil equipped with	Unit W. Ac	cessories and Optional Equipment		Demonstrate or explain methods used to control compressor
		electric heating elements.	3 2 1 N			capacity.
	2.	Identify and describe the functions		Explain how heat transfer by		5. Demonstrate or describe how
		of major components of a fan coil equipped with electric heating		conduction, convection, radiation, and evaporation relates to human		compressor protection devices operate.
		elements.		comfort.		6. Perform the common procedures
	3.	Identify and describe the functions of electric heating controls.		Explain why it is important to control humidity in a building.		used when field servicing open and semi-hermetic compressors.
	4.	Measure resistances and check		Recognize the various kinds of		Shaft sear removal and
		components and controls for		humidifiers used with ACRT		installation
	5.	operation and safety. Determine the cubic feet per minute		systems and explain why each is used.		Valve plate removal and installation
		(cfm) using the temperature rise		Demonstrate or describe how to		Unloader adjustment

types of relays service procedures required for heater selected ACRT equipment and system	essory heater packages, board heating systems, duct
	ers, and radiant heating
Unit Z.Heat Pumpscomponents	erns. the the safety practices ciated with the troubleshooting elected electric heating systems
	ooting Cooling
2. Identify heat pumps by type and necessary for performing service	-
general classification. and maintenance tasks. 3 2 1 N 3. List the components of heat pump 5. State the safety practices 1. Descri	cribe a systematic approach for
	pleshooting cooling systems
4. Demonstrate heat pump installation selected ACRT equipment, and co	components
	te problems to electrical and or
accessories commonly associated Unit CC. Troubleshooting Gas Heating system	hanical functions in cooling ems. ognize and use equipment
	ufacturer's troubleshooting aids
sequence for natural-draft and4. Identify induced-draft gas heating and Charging equipment. cooling 2. Demonstrate skill in interpreting 5. Successions are considered as the cooling of the cool	publeshoot cooling systems. tify and use the service uments needed to troubleshoot ing systems. tessfully troubleshoot selected lems in cooling systems.
1. Identify the common types of leak heating systems 6. State t	e the safety precautions
used. a gas heating system. trouble	ciated with cooling pleshooting.
2. Demonstrate skill in performing leak 4. Identify the tools and instruments detection tests.	ooting Heat Pumps
3. Identify the service equipment used heating systems.	y r-
	cribe a systematic approach for bleshooting cooling systems
4. Demonstrate skill in performing systems. and co	components.
5. Identify the service equipment used gas heating systems. mecha	te problems to electrical and/or hanical functions in cooling
recovered refrigerant, and explain why each item of equipment 3 2 1 N to trou	ems. ognize and use equipment ufacturer's troubleshooting aids oubleshoot cooling systems. tify and use the service
6. Demonstrate skill in performing various types of electric heating instrum	uments needed to troubleshoot ng systems

	_			5.	Successfully troubleshoot selected	Uni	t II.	Do	omes	stic Refrigeration
				_	problems in cooling equipment.					
	—	—	_	6.	State the safety precautions	3	2 1	N		A.P. (C.)
					associated with cooling					Adjust refrigeration door.
					troubleshooting.		— —			Remove and replace a gasket.
Uni	+ 6	G	т.	ouh	leshooting Accessories					Remove and replace breaker trim.
UIII	ıG	G.	• • • • • • • • • • • • • • • • • • • •	Oub	leshooting Accessories					Install capillary tubing. Install in-line service stub.
3	2	1	Ν							Remove and replace the
3	_		1 1	1.	Describe a systematic approach for					temperature control.
		_	_	١.	troubleshooting ACRT system					Locate and repair an evaporator
					accessories.					leak.
				2.	Exhibit competence in isolating					Test the refrigeration thermostat.
	_		_		problems to electrical and/or					Test the defrost heater.
					mechanical functions of ACRT				10.	Locate, test, remove, and replace the
					system accessories.					defrost timer.
				3.	Recognize and use equipment				11.	Test the defrost termination
					manufacturer's troubleshooting aids					thermostat.
					to troubleshoot ACRT system					Test, remove, and replace
					accessories.					evaporator fan motor.
	—	—	_	4.	Identify and properly use the service					Test, remove, and replace
					instruments needed to troubleshoot					condenser fan motor.
				5.	ACRT system accessories. Troubleshoot problems in selected				14.	Determine operating pressures. Identify components and determine
				٥.	ACRT system accessories.	_				condition of an electrical defrost
				6.	State the safety precautions					system.
				0.	associated with the troubleshooting					Test, remove, and replace defrost
					of ACRT accessories.					thermistors.
Uni	t H	H.	Ai	ir Pr	operties and Air System Balancing					
3	2	1	Ν							
				1.	Explain the gas laws (Dalton, Boyle,					
					and Charles) used when dealing					
				_	with air and its properties.					
				2.	Explain how the properties of air					
				_	relate to one another.					
	—	_	_	3.	Use a psychrometric chart to evaluate air properties and changes					
					in air properties.					
				4.	Explain the principles involved in the					
		_		٦.	balancing of air distribution systems.					
				5.	Define common terms used by					
		_	_	٥.	manufacturers when describing					
					grilles, registers, and diffusers.					
				6.	Identify and use the tools and					
					instruments needed to balance air					
					distribution systems.					
				7.	Demonstrate and/or describe the					
					general procedures used to balance					
				_	air distribution systems.					
				8.	Demonstrate and/or describe the					
					methods used to change the speed					
					of air distribution system supply					

fans.